Performance Data Sheet

RGA5512BXD

General Information

Model	RGA5512BXD	**Refrigerant**	R-410A
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3860	3740					
	Watts	697	735					
	Amps	3.35	3.50					
	Lb/h	50.0	48.3					
-10	Btu/h	4460	4270	4070				
	Watts	712	755	799				
	Amps	3.40	3.57	3.75				
	Lb/h	56.4	54.4	52.3				
-5	Btu/h	5150	4880	4600	4320			
	Watts	724	773	823	873			
	Amps	3.44	3.64	3.84	4.04			
	Lb/h	63.7	61.5	59.3	56.9			
0	Btu/h	5930	5580	5230	4860	4490		
	Watts	734	789	845	901	957		
	Amps	3.47	3.69	3.92	4.15	4.38		
	Lb/h	72.0	69.6	67.2	64.6	61.8		
5	Btu/h	6800	6370	5940	5500	5050		
	Watts	740	802	863	925	988		
	Amps	3.49	3.74	3.99	4.25	4.51		
	Lb/h	81.3	78.7	76.1	73.3	70.3		
10	Btu/h	7750	7240	6730	6220	5690	5160	4620
	Watts	743	811	879	947	1020	1090	1150
	Amps	3.49	3.77	4.05	4.34	4.62	4.91	5.20
	Lb/h	91.6	88.8	85.9	82.9	79.8	76.5	73.1
15	Btu/h	8790	8200	7610	7020	6420	5810	5190
	Watts	743	817	891	966	1040	1120	1190
	Amps	3.48	3.79	4.10	4.41	4.72	5.04	5.36
	Lb/h	103	99.8	96.7	93.5	90.2	86.7	83.1
20	Btu/h	9910	9250	8580	7910	7230	6540	5850
	Watts	739	820	901	982	1060	1140	1230
	Amps	3.46	3.80	4.14	4.47	4.82	5.16	5.51
	Lb/h	115	112	108	105	102	97.9	94.1

25	Btu/h	11100	10400	9630	8880	8120	7360	6590
	Watts	732	819	906	994	1080	1170	1260
	Amps	3.42	3.79	4.16	4.52	4.89	5.27	5.64
	Lb/h	128	125	121	118	114	110	106
30	Btu/h	12400	11600	10800	9930	9100	8260	7410
	Watts	720	814	908	1000	1100	1190	1290
	Amps	3.37	3.77	4.16	4.56	4.96	5.36	5.76
	Lb/h	142	138	135	131	127	123	119
35	Btu/h	13800	12900	12000	11100	10200	9240	8320
	Watts	704	804	905	1010	1110	1210	1310
	Amps	3.30	3.73	4.15	4.58	5.01	5.44	5.87
	Lb/h	157	153	149	145	141	137	133
40	Btu/h	15200	14200	13300	12300	11300	10300	9310
	Watts	683	791	899	1010	1110	1220	1330
	Amps	3.21	3.67	4.13	4.58	5.04	5.50	5.96
	Lb/h	173	169	165	160	156	152	147
45	Btu/h	16800	15700	14600	13600	12500	11500	10400
	Watts	658	773	887	1000	1120	1230	1350
	Amps	3.11	3.59	4.08	4.57	5.06	5.55	6.04
	Lb/h	190	185	181	177	172	167	163
50	Btu/h	18400	17200	16100	15000	13800	12700	11500
	Watts	628	750	872	993	1120	1240	1360
	Amps	2.98	3.50	4.02	4.54	5.06	5.58	6.10
	Lb/h	207	203	198	194	189	184	179
55	Btu/h	20100	18900	17600	16400	15200	14000	12800
	Watts	593	722	851	980	1110	1240	1370
	Amps	2.83	3.38	3.94	4.49	5.04	5.59	6.14
	Lb/h	226	221	216	212	207	202	196

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.665241E+03	2.969462E+02	1.696859E+00	8.934065E+01
C2	2.909484E+02	-8.531227E+00	-4.016923E-02	2.124434E+00
C3	-3.431359E+01	5.473876E+00	2.223692E-02	-2.204062E-01
C4	1.720610E+00	-7.768256E-02	-3.033926E-04	1.963047E-02
C5	-1.597638E+00	1.304755E-01	5.777538E-04	-4.937934E-03
C6	1.407994E-02	-1.054040E-03	-6.050077E-06	2.895669E-04
C7	-8.551241E-04	-2.785659E-04	-1.322127E-06	-1.077351E-05
C8	3.770001E-05	2.187628E-04	1.035078E-06	-2.465569E-06
C9	2.274573E-04	-4.877703E-05	-2.350179E-07	4.828416E-06
C10	-1.481891E-04	1.076456E-05	6.061907E-08	-3.018712E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature